

CLAIMS

1. A method of providing a substrate (10) with a coating layer (13) of a polymeric material, characterised in the steps that:
 - a) a pulverous, polymeric material (2) is suspended (1) in a fluid (3),
 - b) the fluid (3) is pressurised (5),
 - c) the pressurised suspension is ejected (16) onto the substrate (10) to form the coating layer (13),
 - d) the polymeric material is, during any one of steps a)-c), heated (4, 6, 11) to a temperature above its softening temperature.
2. A method according to claim 1, characterised in that said heating (11) in step d) is performed during step c).
3. A method according to claim 1 or 2, characterised in that said fluid (3) is a gaseous fluid, preferably air or an inert gas.
4. A method according to claim 1 and 2, characterised in that said fluid (3) is a liquid, preferably an aqueous liquid, which liquid is evaporated in connection with the heating (11) in step d), during step c), so that the polymeric material is essentially free from the fluid as it hits the substrate (10).
5. A method according to any one of the preceding claims, characterised in that the heating (11) of the polymeric material during step d) is performed to a temperature below the melting temperature of the polymeric material.
6. A method according to any one of the preceding claims, characterised in that the suspension is heated (4, 6) before step d), preferably in connection with step a) and/or b).
7. A method according to any one of the preceding claims, characterised in that the pulverous polymeric material in step a) has a mean particle size of 1-100 μm , preferably 1-50 μm and even more preferred 1-25 μm , the pulverous particles preferably being constituted of pulverous particles as formed directly in manufacturing of the polymeric material.

- 5 8. A method according to any one of the preceding claims,
characterised in that the surface of the polymeric pulverous
particles is affected to counteract agglomeration of the pulverous
particles in the suspension, preferably by treating the pulverous
particles or by addition to the suspension of an agent that affects the
surface.
- 10 9. A method according to any one of the preceding claims,
characterised in that the substrate (10) is a substrate for a
packaging laminate, preferably comprising one or more layers in the
group that consists of a fibre based core layer, a polymer core layer,
a gas barrier layer, an adhesive layer, a liquid barrier layer and a
sealing layer.
- 15 10. A method according to any one of the preceding claims,
characterised in that the substrate (10) is pretreated,
preferably in direct connection with step c), (15) for increased
adhesion of the polymeric material.
- 20 11. A method according to any one of the preceding claims,
characterised in that said coating layer (13) is applied at a
thickness of 0.1-5 μm , preferably 0.1-2 μm and even more preferred
0.1-1 μm .
- 25 12. A method according to any one of the preceding claims,
characterised in that said coating layer (13) is applied on
essentially the entire surface of one side of the substrate (10).
- 30 13. A method according to any one of the preceding claims,
characterised in that said coating layer (13) is applied only
partially, on chosen parts of the surface of one side of the substrate
(10).
- 35 14. A device for providing a substrate (10) with a coating layer (13) of a
polymeric material, characterised in that it comprises
- mixing equipment (1), arranged to suspend a pulverous polymeric
material (2) in a fluid (3),
- pressurising equipment (5), arranged to pressurise said fluid,
- at least one nozzle (9) operatively connected to the pressurising

equipment (5) and arranged to eject (16) the suspension of polymeric material in fluid towards the substrate (10),
- heating equipment (4, 6, 11) arranged to heat the polymeric material to a temperature above its softening temperature.

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15. A device according to claim 14, characterised in that heating equipment (4, 6) is arranged upstream the heating equipment (11), preferably in connection with said mixing equipment (1) and/or said pressurising equipment (5), and arranged to heat said fluid and/or
10 suspension of polymeric material in fluid.

16. A device according to claim 14 or 15, characterised in that flow controlling equipment (7, 8) is arranged to control a flow (16) of the suspension in said nozzle (9).

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17. A device according to any one of claims 14-16, characterised in means (15) arranged to pretreat the substrate (10), preferably comprising activation of the surface of the substrate.